Harmonised, flexible single conductor for protected, fixed installation
Higher cost-effectiveness due to optimum processing volumes
Single cores are embossed so that an additional, subsequent marking by ink jet printing is readable
The comparatively low weight of the cardboard boxes makes handling easy
Time-saving assembly



CE <HAR> RoHS

Info
Efficient
<HAR>

Application range
Ideal for assembling to achieve longer operating times and trouble-free printing
Suitable for assembling cable harnesses and wiring during switch cabinet installation

Design
Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
Core insulation: Based on PVC

Norm references / Approvals
<HAR> cable type certification acc. EN 50525-2-31

Product features
Flame-retardant according IEC 60332-1-2

Remark
Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Photographs are not to scale and do not represent detailed images of the respective products.
The outer diameters stated in the part number table are maximum values.

Technical Data

Conductor stranding:	Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
Minimum bending radius:	At a cable temperature of 20 °C ±10 °C, according to HD 516 4 x outer diameter (OD) for normal use 2 x OD for cautions bending
Nominal voltage:	U_0/U: 300/500 V
Test voltage:	2000 V
Current rating:	VDE 0298 Part 4 HD 516/VDE 0298-300
Temperature range:	Fixed installation: -30 °C to +80 °C Moved: +5 °C to +70 °C

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Part number	Conductor cross-section (mm²)	Outer diameter (mm)	Core colour	m/box	Copper index (kg/km)	Weight (kg/km)
4510001K	0,5	2.5	green/yellow	3000	4.8	9
4511065K	0,5	2.5	brown	3000	4.8	9
4510011K	0,5	2.5	black	3000	4.8	9
4511073K	0,5	2.5	grey	3000	4.8	9
4510021K	0,5	2.5	blue	3000	4.8	9
4510021E	0,5	2.5	blue	9000	4.8	9
4511064K	0,5	2.5	Dark blue	3000	4.8	9
4511060E	0,5	2.5	Dark blue	9000	4.8	9
4510161K	0,5	2.5	ultra-marine blue	3000	4.8	9
4511068K	0,5	2.5	violet	3000	4.8	9
4511072K	0,5	2.5	white	3000	4.8	9
4511071K	0,5	2.5	red	3000	4.8	9
4510921K	0,5	2.5	Dark blue/white	3000	4.8	9
4510002K	0,75	2.7	green/yellow	2500	7.2	12
4510122K	0,75	2.7	green	2500	7.2	12
4510032K	0,75	2.7	brown	2500	7.2	12
4510012K	0,75	2.7	black	2500	7.2	12
4510062K	0,75	2.7	grey	2500	7.2	12
4510022K	0,75	2.7	blue	2500	7.2	12
4510022E	0,75	2.7	blue	7500	7.2	12
4510142K	0,75	2.7	Dark blue	2500	7.2	12
4511061E	0,75	2.7	Dark blue	7500	7.2	12
4510162K	0,75	2.7	ultra-marine blue	2500	7.2	12
4510092K	0,75	2.7	orange	2500	7.2	12
4510072K	0,75	2.7	violet	2500	7.2	12
4510112K	0,75	2.7	yellow	2500	7.2	12
4510052K	0,75	2.7	white	2500	7.2	12
4510042K	0,75	2.7	red	2500	7.2	12
4510082K	0,75	2.7	pink	2500	7.2	12
4510262K	0,75	2.7	blue/white	2500	7.2	12
4510922K	0,75	2.7	Dark blue/white	2500	7.2	12
4510003K	1	2.8	green/yellow	2000	9.6	15
4510033K	1	2.8	brown	2000	9.6	15
4510013K	1	2.8	black	2000	9.6	15

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Part number	Conductor cross-section (mm^2)	Outer diameter (mm)	Core colour	m/box	Copper index (kg/km)	Weight (kg/km)
4510013E	1	2.8	black	6000	9.6	15
4510063K	1	2.8	grey	2000	9.6	15
4510023K	1	2.8	blue	2000	9.6	15
4510023E	1	2.8	blue	6000	9.6	15
4510143K	1	2.8	Dark blue	2000	9.6	15
4511062E	1	2.8	Dark blue	6000	9.6	15
4510163K	1	2.8	ultra-marine blue	2000	9.6	15
4510093K	1	2.8	orange	2000	9.6	15
4510073K	1	2.8	violet	2000	9.6	15
4510113K	1	2.8	yellow	2000	9.6	15
4510053K	1	2.8	white	2000	9.6	15
4510043K	1	2.8	red	2000	9.6	15
4510263K	1	2.8	blue/white	2000	9.6	15
4510923K	1	2.8	Dark blue/white	2000	9.6	15

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